

**IN THE SPECIFICATION**

1. On page 3, please replace lines 24-33 with the following:

The marker PGIol which is amplified using the primers: PGIol U  
and PGIol L

(PGIol U: 5'TCATTTGATTGTTGCGCCTG3' (SEQ ID NO:6);

PGIol L: 5'TGTACATCAGACCCGGTAGAAA3' (SEQ ID NO:7))

- The marker PGIint which is amplified using the primers: PGIint  
U and PGIint L

(PGIint U: 5'CAGCACTAATCTTGCGGTATG3' (SEQ ID NO:8);

PGIint L: 5'CAATAACCCTAAAAGCACCTG3' (SEQ ID NO:9))

- The marker PGIUNT which is amplified using the primers: PGIol U  
and PGIint L:

(PGIol U: 5'TCATTTGATTGTTGCGCCTG3' (SEQ ID NO:10);

PGIint L: 5'CAATAACCCTAAAAGCACCTG3' (SEQ ID NO:11))

- The marker BolJon which is amplified using the primers:  
BolJon U and BolJon L:

2. Please replace page 4 with the following:

(BolJon U: 5'GATCCGATTCTTCTCCTGTTG3' (SEQ ID NO:12);

BolJon L: 5'GCCTACTCCTCAAATCACTCT3' (SEQ ID NO:13))

- The marker CP418 which is amplified using the primers: SG129 U  
and pCP418 L:

(SG129 U: cf Giancola et al, 2003 *Theor Appl. Genet.* (in  
press)

pCP418 L : 5'AATTTCTCCATCACAAGGACC3') (SEQ ID NO:14)

Another object of the present invention relates to the PGIol,  
PGIUNT, PGIint, BolJon and CP418 markers whose sequences follow:

PGIol R2000 marker:

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TCATTTGATT GTTGC GCCTG TCGCCTTGTT GTGTTATGAT GAATGAACAG CAGTCATTTA 60
ACATGTGGTT AACTTAACAG GGCTCCGGCT GTTGCAAAAC ACATGGTTGC TGTCAGCACT 120
AATCTTGCGG TATGAATTTG TGATTAAATT TGTTTGTTTG TGACTCTTTC TTCATTGTTT 180
GTTTTCGTAC AATAAACCGA ATGTATAATC TTTTACAAA CTGAATTTTC TACCGGGTCT 240
GATGTACA                                     248
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(SEQ ID NO:1)

## PGIUNT R2000 marker:

TCATTTGATT	GTTGCGCCTG	TCGCCTTGTT	GTGTTATGAT	GAATGAACAG	CAGTCATTTA	60
ACATGTGGTT	AACTTAACAG	GGCTCCGGCT	GTTGCAAAAC	ACATGGTTGC	TGTCAGCACT	120
AATCTTGCGG	TATGAATTTG	TGATTAAATT	TGTTTGTTTG	TGACTCTTTC	TTCATTGTTT	180
GTTTTTCGTAC	AATAAACCGA	ATGTATAATC	TTTTACAAAC	TGAATTTTCT	ACCGGGTCTG	240
ATGTACAATG	CTAGTCTCCA	TGTTCTTGGG	GATCATGATT	TATTTTCTAC	ATGTATTTCAG	300
ACAGTACAGA	AGAAAGTGTT	CAAACTCTG	GATGTTTAA	TTTACAGTTA	GTGGAGAAGT	360
TCGGCATTGA	TCCGAACAAT	GCATTTGCAT	TTTGGGACTG	GGTTGGTGGA	AGGTACAGTG	420
GTAAGTGCTT	GTTTATTTGG	TTGTATAAAT	TTCTCGTCCA	TTTCCGCTTG	CTTAGTGTAT	480
AACTGAAATT	CTTTTGCACT	TTGCAGTGCT	GTTGGAGTCT	TACCATTGTC	TCTACAGTAT	540
GGCTTCTCTG	TGGTTGAGAA	GTACGGTACC	TTCTACTTTA	TCAGCCATCT	CATAAAATGT	600
CTTAGGCATA	TTCTTTCTAT	TTTATTTCCC	TCTTAATGAT	TTCTTCTTTT	TTTTATTGCA	660
TTCCCGTTTT	ATTTTCAAAA	GTTGTTACTG	TCTCTAAATC	AAGAAGAAAC	CTTCTTAGTA	720
GATCCAGCTG	ATATTCAGCC	TTTTTTAAAT	TGGACTGCAG	GTTTTTAAAG	GGGAGCTTCA	780
AGCATTGATA	AGCATTTCCA	GTCCACACCG	TTTGAGAAGA	ATATACCCGT	GAGTTGCATT	840
AGTTGTGTGA	TTATACAGTT	TTCTTGCTCT	TTTGCTATGT	CCATCAACAC	TAGAGATTCTG	900
TGAAGTTATT	AGTGTAGTCA	ACGCATAGGG	AGAGGTGATT	GGTGACTTTT	GGACGATTTT	960
AGGTGCTTTA	GGGTATTG					979

(SEQ ID NO:2)

## PGIint R2000 marker:

CAGCACTAAT	CTTGCGGTAT	GAATTTGTGA	TTAAATTTGT	TTGTTTGTGA	CTCTTTCTTC	60
ATTGTTCTGT	TTCGTACAAT	AAACCGAATG	TATAATCTTT	TACAAACTGA	ATTTTCTACC	120
GGGTCTGATG	TACAAATGCTA	GTCTCCATGT	TCTTGGGGAT	CATGATTTAT	TTTCTACATG	180
TATTCAGACA	GTACAGAAGA	AAGTGTTCAA	AACTCTGGAT	GTTTTAATTT	ACAGTTAGTG	240
GAGAAGTTCTG	GCATTGATCC	GAACAATGCA	TTTGCAATTT	GGGACTGGGT	TGGTGGAAGG	300
TACAGTGGTA	AGTGCTTGTT	TATTTGGTTG	TATAAAATTC	TCGTCCATTT	CCGCTTGCTT	360
AGTGATATAAC	TGAAATTCCT	TTGCAGTTTG	CAGTGCTGTT	GGAGTCTTAC	CATTGTCTCT	420
ACAGTATGGC	TTCTCTGTGG	TTGAGAAGTA	CGGTACCTTC	TACTTTATCA	GCCATCTCAT	480
AAAATGTCTT	AGGCATATTC	TTTCTATTTT	ATTTCCTCT	TAATGATTTT	TTCTTTTTTT	540
TATTGCATT	CCGTTTTATT	TTCAAAAGTT	GTTACTGTCT	CTAAATCAAG	AAGAAACCTT	600
CTTAGTAGAT	CCAGCTGATA	TTCAGCCTTT	TTTAAATTTG	ACTGCAGGTT	TTTAAAGGGG	660
AGCTTCAAGC	ATTGATAAGC	ATTTCCAGTC	CACACCGTTT	GAGAAGAATA	TACCCGTGAG	720
TTGCATTAGT	TGTGTGATTA	TACAGTTTTT	TTGTCTTTTT	GCTATGTCCA	TCAACACTAG	780
AGATTTCGTGA	AGTTATTAGT	GTAAGTCAACG	CATAGGGAGA	GGTGATTGGT	GACTTTTGGA	840
CGATTTTCAGG	TGCTTTAGGG	TTATTG				866

(SEQ ID NO:3)

3. On page 5, please replace lines 1-33 with the following:

## BolJon R2000 marker:

GATCCGATTC	TTCTCCTGTT	GAGATCAGCT	CCAAACATCA	AACAACCTGT	ACACAAATAT	60
CTTFACTTGC	TAAATGGAAC	ATGACAAGAG	ATAGAAAATC	TTGCTCATAG	TATTGTACAA	120
GGGATAACAG	TGTAGAAAAC	AAACCGTCTG	TAAGATTTTC	TCCCTGATCC	TCTCACTTAA	180
CCAGTAGGCG	TTTTTCACAT	TGAAGCGCAT	ATCTACTTTG	GTATTTACTG	AATAAAAAAA	240
GAAAGCTGGT	AACATGTGAA	GGATATACAA	GCATTGATAC	ACCAAGTAGT	CACAAACTAC	300
ATTATAAAGG	TCAGACCTTT	GTTACACATT	TGGCCTCCAG	GACCACCGCT	TCTAGCAAAAG	360
TTAAGCGTAA	CATGGTCTGC	ACGTATACAA	ATGAAAATGT	TTCTATCAAA	ATCCTATAAA	420
ATAGAGCTCT	ATAACATTGT	CGATACATAG	TTTCACTAAC	TCTGCAAGTA	CTAAACACAT	480
ATACAAACAA	AACTATGCGA	ACAGATCAAA	ACTACTACAG	AACACAGTTC	TATGACACTG	540
TCGATAGTAA	CATCCTCTGC	AAGTACCAAA	GAGATAGCAA	ATGAAACTAT	GTAAACAAAT	600
CAAAATTCTA	AATTTCTCCA	TCACAAGGAC	CTACAGAATA	GAGTTATCAT	AACATTTTCT	660
GTAAATATTT	CCATCAAAAT	GAAGTAGAGAA	CAGAGTTCTT	ATAACATTAT	CTGTAAATGT	720
TCCAACAAAA	CCACTACATA	GCAGAGTTCT	TATAACATTG	TCTGTAAATG	TCCAATCAAA	780
ACCACTACAG	AACAAAGCTC	CTATAACATT	GTTTATACAA	AGTTTCACTA	AATCTACAAA	840
CTTCCCCCGT	AAATGAGCTT	AATATCACCC	AAAGATGTTT	CAATCAGATA	AAGAGTACGA	900
CATCGTTTTG	AGATTAGAAC	AAACTGAAAC	TTACGTAGAG	TGATTTGAGG	AGTAGGC	957

(SEQ ID NO:4)CP418L R2000 marker:

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AATTTCTCCA TCACAAGGAC CTACAGAATA GAGTTATCAT AACATTTTCT GTAAATATTT 60
CCATCAAAAT GACTAGAGAA CAGAGTTCTT ATAACATTAT CTGTAAATGT TCCAACAAAA 120
CCACTACATA GCAGAGTTCT TATAACATTG TCTGTAAATG TCCAATCAAA ACCACTACAG 180
AACAAAGCTC CTATAACATT GTTTATACAA AGTTTCACTA AATCTACAAA CTTTCCCCGT 240
AAATGAGCTT AATATCACCC AAAGATGTTT CAATCAGATA AAGAGTAACG ACATCGTTTT 300
GAGATTAGAA CAAACTGAAA CTTACGTAGA GTGATTTGAG GAGTAGGCTC GTTGCCAGCA 360
GAGCTAGCTC TCTCCTCCGC CTCATGAAGC ATCTGTTGCA CCTGAGACAA CCGTGACGAA 420
ACTTTCCGAT CACCGCCACC AGAATTCGAC GCCGCGCATC GGAAGGATCC GAATCGGGAA 480
CTGAGTGAAC CCGAGCGATC CCGGGAGTGC GACGGAGCGA TGGGAAAAGA GAGTGGCACG 540
ATTTTCGACGA AGAGTGGAAG AGGAGAGGGT GGTGGATAAA CTCGCGTATG ATCAAGTTCG 600
TCATCGTCCT GATTGCCGCC ATTTTTTTTG TCAGGGCGCT CTGTGGCTTA GAAGTTTCCG 660
ATGTCAATGA AC 672
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(SEQ ID NO:5)